



Course Distribution Department of Physics 2020-21

Course distribution of odd semester, 2020-21

Department: Physics

Faculty Name	Sei	mester	Paper Code	Unit wise division
Bilip Bordoloi	I	Н	C2: Mechanics	Fundamental of dynamics, Work and
			C2-Lab	energy, Collision, Rotational dynamics,
				Elasticity.
		GE	GE1: Mechanics	Elasticity, Special theory of Relativity.
	III	M	C6: Thermal Physics	Zeroth and First Law of
				Thermodynamics, Secod law of
				Thermodynamics, Entropy.
		GE	DSC-3A: Thermal Physics and	Law of thermodynamics
			Statistical Mechanics	
	V	M	PHYM 50300	Unit I: Quantum Theory of Atom
			Atomic and Molecular Physics	Unit II: Fine Structure of Atom
				Unit III: Molecular Spectra and Lasers
		GE	PHYG 50100:	
			Atomic and Nuclear Physics	Unit II: Atomic Physics
Atul Borchetia	I	Н	C1: Mathematical Physics-1	Calculus
			C2-Lab	
		GE	GE1: Mechanics	Momentum and energy, Rotational
				motion.
	III	M	C5: Mathematical Physics-II	Fourier Series, Frobenius Method and
				Special Function, Some Special Integral
		GE	DSC-3A: Thermal Physics and	Theory of radiation
	17		Statistical Mechanics	III is a piece of the state of
	V	M	PHYM 50100:	Unit I: Differential equation and Special
			Mathematical Physics	function
		CE	DIIV.C 50100.	Unit II: Complex variables
		GE	PHYG 50100:	Linit III: A analaratar
Digente konver	1	Н	Atomic and Nuclear Physics	Unit III: Accelerator
Diganta konwar	I	П	C2: Mechanics	Fluid motion, Gravitation and Central
				force motion, Oscillation, Non-Inertial systems.
		GE	GE1: Mechanics	Gravitation, Oscillation
	III	M	C7: Digital System and	Introduction to CRO, Integrated Circuit,
	''''	IVI	Application	Digital Circuit, Boolean Algebra, Data
			C6-Lab	Processing Circuits, Arithmetic Circuit,
			C7-Lab	Sequential Circuit, Timers, Shift
			C, Euo	registers, Counters(4 bits)
		GE	DSC-3A: Thermal Physics and	Kinetic Theory of Gases.
			Statistical Mechanics	
	V	M	PHYM 50400 :	Unit I: Semiconductor
	'		Electronics	Unit II: Transistor and Amplifier
				Unit III: Oscillation and Integrated
				circuit
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		GE	PHYG 50100:	Unit III: Nuclear Physics
C V	T	11	Atomic and Nuclear Physics	Waster Calculus Waster 1:00 markinking
Guna Kanta Sonowal	I	Н	C1: Mathematical Physics-1	Vector Calculus, Vector differentiation,
		GE	C1-Lab. GE1: Mechanics	Vector integration.
	111	1		Vector, Ordinary differential Equation.
	III	M	C6: Thermal Physics	Thermodynamic Potential, Maxwell's Thermodynamic Relations, Kinetic
				Theory of Gasses, Distribution of
				velocities, Molecular Collisions, Real
				Gases,
		GE	DSC-3A: Thermal Physics and	Statistical Mechanics.
		GE	Statistical Mechanics	Statistical Mechanics.
	V	M	PHYM 50200:	Unit I: Electromagnetic fields
	'	171	Electrodynmics and Spesial	Unit II: Propagation of electromagnetic
			Relativity	waves
		GE	PHYG 50100:	Unit I : Cathode rays, X-ray,
		J OL	Atomic and Nuclear Physics	Photoelectric effect.
Jayanta Sonowal	I	Н	C1: Mathematical Physics-1	Orthogonal Curvilinear Coordinates,
vayana sonowar	^	**		Introduction to probability, Dirac Delta
				function and its properties.
			C2: Mechanics	Special theory of relativity.
		GE	GE1: Mechanics	Law of motion.
	III	M	C5: Mathematical Physics-II	Theory of Errors, Partial Differential
			•	Equations.
			C7: Digital System and	Computer organization, Intel 8085
			Application	Microprocessor Architecture,
			C5-Lab	Introduction to Assembly Language.
			C7-Lab	
		GE	C5: Mathematical Physics-II	Theory of Errors, Partial Differential
				Equations.
			C7: Digital System and	Computer organization, Intel 8085
			Application	Microprocessor Architecture,
			C5-Lab	Introduction to Assembly Language.
	17	1	C7-Lab	H :/ III E : .
	V	M	PHYM 50100:	Unit III: Fourier series
			Mathematical Physics	
			PHYM 50200:	Huit III. Chaoial Theory of Delativity
			Electrodynmics and Spesial	Unit III: Special Theory of Relativity
			Relativity PHYM 50400 :	
			Electronics	Unit IV: Digital electronics
		GE	Electionics	Omi IV. Digital electionics
		OE	-	
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H.O.D. Physics

Course distribution even Semester 2020- 2021

Faculty Name	Sei	mester	Paper Code	Unit wise division
Bilip Bordoloi	I	Н	C3: Electricity and Magnetism C4: Waves and Optics C4-Lab	Electric circuits, Network Theorems, Ballistic Galvanometer. Fresnel diffraction, Holography.
		GE	DSC-2A: Electricity and Magnetism	Electromagnetic induction, Maxwell's equation and electromagnetic wave propagation.
	IV	M	C8: Mathematical physics-III C9-Lab C10-Lab	Integral Transforms, Laplace transform.
		GE	DSC-4A: Wave and Optics DSC-4A-Lab	Diffraction
	VI	M	PHYM 60300 : Nuclear Physics PHYM 60430: Laser and its Application	Unit I : Properties of Atomic Nuclei Unit II : Nuclear Model Unit I : Introduction to Laser Unit II: Laser system
		GE	PHYG 60100: Electronics and Solid State Physics	Unit IV: Free electron theory of metals.
Atul Borchetia	I	Н	C3: Electricity and Magnetism C3-Lab	Magnetic Field, Magnetic properties of Matter, Electromagnetic Induction
		GE	DSC-2A: Electricity and Magnetism DSC-2A-Lab	Electrostatics
	IV	M	C9: Elements of Modern physics	Planck's quantum theory, Radiation, Position measurement, Schrödinger equation, Two slit interference experiments with photons, One dimensional rigid box.
		GE	DSC-4A: Wave and Optics	Michelson's interferometer, Polarization.
	VI	M	PHYM 60200 : Condensed Matter physics PHYM 60430: Laser and its Application	Unit I: Crystal structure Unit II: Properties of solid Unit III: Properties of Laser radiation
		GE	PHYG 60100: Electronics and Solid State Physics	Unit III: Crystal structure
Diganta konwar	I	Н	C4: Waves and Optics C4-lab	Superposition of Collinear Harmonic Oscillations, Superposition of two perpendicular harmonic oscillations, Wave motion, Velocity of waves, Superposition of two harmonic waves.
		GE	DSC-2A: Electricity and Magnetism	Electrostatics in Dielectric medium.
	IV	M	C10: Analog System and Application C10-Lab	Semiconductor diode, Two terminal devices and their applications, Bipolar junction transistors, Amplifiers,

				Coupled amplifier, Feedback in amplifiers.
		GE	DSC-4A: Wave and Optics	Superposition of two collinear harmonic oscillations, Superposition of two perpendicular harmonic oscillations, Wave motion-General.
	VI	M	PHYM 60200 : Condensed Matter physics PHYM 60300 : Nuclear Physics PHYM 60430: Laser and its Application	Unit III: Semiconductor materials and Superconductivity Unit III: Nuclear reaction and cosmic rays Unit IV: Elementary particles Unit IV: Laser application
		GE	PHYG 60100: Electronics and Solid State Physics	Unit: Semiconductor
Guna Kanta Sonowal	I	Н	C3: Electricity and Magnetism C4-Lab	Electric Field and Electric Potential, Dielectric properties of Matter
		GE	DSC-2A: Electricity and Magnetism	Vector analysis.
	IV	M	C8: Mathematical physics-III C9-Lab	Complex Analysis.
		GE	DSC-4A: Wave and Optics DSC-4A-Lab	Sound
	VI	M	PHYM 60100: Statistical Mechanics PHYM 60430: Laser and its Application	Unit I: Classical statistical physics Unit II: Entropy and partition function Unit V: Magneto- Optics and Electro Optics
		GE	PHYG 60100: Electronics and Solid State Physics	Unit II: Transistor
Jayanta Sonowal	I	Н	C4: Waves and Optics C3-Lab	Wave optics, Interference, Interferometer, Diffraction, Fraunhofer diffraction
		GE	DSC-2A: Electricity and Magnetism DSC-2A-Lab	Magnetism
	IV	M	C9: Elements of Modern physics C9: Elements of Modern physics C8-Lab	Atomic Nucleus, Radioactivity, Fission and Fusion, Lasers. Sinusoidal oscillations, Operational amplifiers, Applications of Op-Amps, Conversion.
		GE	C9: Elements of Modern physics C9: Elements of Modern physics C8-Lab	Atomic Nucleus, Radioactivity, Fission and Fusion, Lasers. Sinusoidal oscillations, Operational amplifiers, Applications of Op-Amps, Conversion.
	VI	M	PHYM 60100: Statistical Mechanics	Unit III: Quantum statistical physics Unit IV: Application of quantum statistical mechanics
		GE	-	

H.O.D. Physics